## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re:

Xuan Zhao

Confirmation No.: To Be Assigned

Appl No.:

To Be Assigned

Group Art Unit: 1615

Filed:

Concurrently Herewith

Examiner:

Fubara, Blessing M.

For:

Multi-Arm Block Copolymers as Drug Delivery Vehicles

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT CITATION UNDER 37 C.F.R. § 1.97

Attached is a list of documents on form PTO-1449. It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP. By submitting the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead submitting the listed documents for the sake of full disclosure.

The foreign patents and non-patent literature documents items were supplied in, or cited by the Office during prosecution of, parent Application No. 10/054,662, filed January 22, 2002. Since the benefit of this application was claimed under 35 U.S.C. 120, no copies need to be furnished in accordance with 37 C.F.R. 1.98(d); however, copies will be furnished on request.

Respectfully submitted,

MY Humphrey Registration No. 43,683

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Tracey S. Wright - RTA 2151227v1

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(Revised 04/2003)				Application Number	To Be Assigned	
INIEOD:	N # A TOTAL	IDICCIO	OTTO	Filing Date	Concurrently Herewith	
INFORMATION DISCLOSURE				First Named Inventor	Xuan Zhao	
		BY APPLIC		Group Art Unit	1615	
(Use as many sheets as necessary)				Examiner Name	Fubara, Blessing M.	
Sheet	1	of		Attorney Docket Number	034848/274536	

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Document Number  Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear	
	1_	US-3,101,374	08-20-1963	Patton, Jr.		
	2	US-4,278,555	07-14-1981	Zaweski et al.		
<u> </u>	_3_	US-4,894,238	01-16-1990	Embry et al.		
	4	US-5,135,751	08-04-1992	Henry et al.		
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	12	US-5,874,500	02-23-1999	Rhee et al.		
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_	22	US-6,328,988 B1	12-11-2001	Uhrich		
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<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute fo	or form 1449/P	TO			Complete if Known	
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YNIDOD		I DICCI O	CLIDE	Filing Date	Concurrently Herewith	
INFORMATION DISCLOSURE				First Named Inventor	Xuan Zhao	
	STATEMENT BY APPLICANT			Group Art Unit	1615	
(Use as many sheets as necessary)			)	Examiner Name	Fubara, Blessing M.	
Sheet	2	of		Attorney Docket Number	034848/274536	

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26	US-2002/0041898 A1	04-11-2002	Unger et al.			
27	US-6,436,425 B1	08-20-2002	Henry et al.			
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29	US-6,515,100 B2	02-04-2003	Harris			
30	US-2003/0059465 A1	03-27-2003	Unger et al.			
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		FOREI	GN PATENT D	OCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document  Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached
	32	EP 0 462 408 A2	12-12-1991	Bayer AG		Yes
	33	WO 92/00748 A1	01-23-1992	Enzon, Inc.		
	34	EP 0 473 268 A2	03-04-1992	Imperial Chemical Industries PLC		
	35	WO 96/03984	02-15-1996	Massachusetts Institute of Technology		
	36	WO 99/29303 A1	06-17-1999	Expression Genetics, Inc.		·
	37	WO 99/45964	09-16-1999	Shearwater Polymers, Incorporated		
	38	WO 00/65024 A3	11-02-2000	Rutgers, The State University		
•	39	WO 01/49268 A1	07-12-2001	IMARX Therapeutics, Inc.		

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Substitute for form 1449/PTO Complete if Known (Revised 04/2003) To Be Assigned Application Number Filing Date Concurrently Herewith INFORMATION DISCLOSURE First Named Inventor Xuan Zhao STATEMENT BY APPLICANT Group Art Unit 1615 (Use as many sheets as necessary) Examiner Name Fubara, Blessing M. Sheet Attorney Docket Number of 034848/274536

		OTHER DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached
	40	CHOI et al., "Star-Shaped Poly(ether-ester) Block Copolymers: Synthesis, Characterization, and Their Physical Properties", Macromolecules, 1998, pp. 8766-8774, Vol. 31, No. 25.	
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	43	HARRIS, J. Milton, "Introduction to Biotechnical and Biomedical Applications of Poly(Ethylene Glycol)", Poly(Ethylene Glycol) Chemistry: Biotechnical and Biomedical Applications, 1992, pp. 1-14.	
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	45	JEONG et al., "Adriamycin release from flower-type polymeric micelle based on star-block copolymer composed of poly(γ-benzyl L-glutamate) as the hydrophobic part and poly(ethylene oxide) as the hydrophilic part", International Journal of Pharmaceutics, 1999, pp. 49-58, Vol. 188.	
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	48	LEWIS, Richard J., Sr., <u>Hawley's Condensed Chemical Dictionary</u> , 1997, pp. 891-892 and 1092 - 1093, Thirteenth Edition, John Wiley & Sons, Inc.	
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	51	PISTEL et al., "Biodegradable recombinant human erythropoietin loaded microspheres prepared from linear and star-branched block copolymers: Influence of encapsulation technique and polymer composition on particle characteristics", Journal of Controlled Release, 1999, pp. 309-325, Vol. 59.	

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		OTHER DOCUMENTS	
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher country where published.		English Language Translation Attached
	52	ROUBI, Maureen, "Hyperbranched polymers deliver drugs steadily", <i>Chemical &amp; Engineering News</i> , 1999, p. 63, Vol. 77, No. 03.	
	53	SAWHNEY, A., et al., "Bioerodible Hydrogels Based on Photopolymerized Poly(ethylene glycol)-co-poly(α-hydroxy acid) Diacrylate Macromers," <i>Macromolecules</i> , 1993, pp. 581-587, Vol. 26.	
	54	SCHMALENBERG et al., "Cytotoxicity of a Unimolecular Polymeric Micelle and Its Degradation Products", Biomacromolecules, 2001, pp. A-E.	
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